

Aerospace Badge

Activity 5: Models Away

Attend a radio-controlled or control-line airplane event or a model rocket launch. Find out how much time and money it takes to build a model.

Resources in Kit

- ☆ Videotape: *Liftoff to Learning: Space Basics*, 21 minutes
- ☆ Lithograph: *Space Shuttle Endeavour Lifts Off into Space*

In This Section

- ➔ 3-2-1 Pop!
- ➔ Paper Rockets
- ➔ Bottle Rockets
- ➔ Bottle Rocket Launcher
- ➔ Glossary from NASA publication: *Rockets: A Teacher's Guide*

Suggestions

- ☆ Invite members from a local model airplane or rocketry club to visit your troop/group, or take the troop/group to a field the club uses to see a demonstration. See Web Resources.
- ☆ Try a great introductory rocket activity with the troop/group outside on a nice day using seltzer rockets in the 3-2-1 Pop! activity. For effective launches use white Fuji film canisters. The lids snap inside the canister rather than on the outside (Black Kodak film canisters do not work!). HINT: Many local film development counters in retail stores will save them for you free of charge.

- ☆ A simple rocket activity that can be done inside with straws is the "Paper Rockets" activity.

Above and Beyond

- ☆ For a dramatic model rocket experience, try bottle rockets! Bottle rockets launch really high! This is an outside activity. You'll need 2 liter soda bottles for each group of girls. Have them work in groups of 2 or 3. You'll need a very good bicycle pump and a bottle rocket launcher, which can be ordered. See the form in this section. Want some help? Contact a local model rocket club.

THIS IS DEFINITELY WORTH DOING!

Web Resources (on yellow paper)

- ☆ <http://www.rcsoaring.com/clubs.shtml>

This website will connect you to model airplane clubs in each state.

- ☆ <http://people.ne.mediaone.net/indoor/events.htm>

This site has state-by-state links to indoor model aircraft flying clubs.

- ☆ <http://skybusters.org/LaunchWindows.asp>

The Tri City Skybusters Club is a local group that launches model rockets on the first and third weekend of each month, with reschedule dates for bad weather. They have many volunteers that are willing to speak to groups.

- ☆ <http://www.shop-pitsco.com/pitsco3/catalog.cfm?dest=dir&linkid=56&linkon=category>

This site is the place to go to order supplies for the water bottle rockets.

- ☆ <http://www.esteseducator.com/cfusion/rocketry101.cfm>

This site has information on model rockets that use solid fuel and electric ignition to launch.